Fwd: Highway 36 map/info
Sujata JOSHI to: Scott Downey 08/11/2011 07:06 PM

History: This message has been forwarded.

[attachment "EPA_recruitinfo_8.11.10.xlsx" deleted by Scott Downey/R10/USEPA/US]
[attachment "Hwy36recruitment_8.11_EPA.jpg" deleted by Scott Downey/R10/USEPA/US]

>>> Sujata JOSHI 8/11/2011 4:27 PM >>>
Hello,

As a follow-up to this morning's conversation, I'm sending you a map, spreadsheet, and layer file that provides information on: the households we've recruited, the water source for each household, and the foods we (OHA) recommend to be sampled at each household. Please let me know if you need more information, and apologies for my cartoon-y looking map.

Also, I asked Shannon Ofallon about some of the confidentiality issues we discussed this morning. She's looking in to it some more, and will be following up with DEQ's and other agencies' legal advisors on this. I hope we can get a better answer on this by next week.

Finally, I really appreciate everyone's patience as we scramble and muddle our way through this. A lot of these issues are because of the incredibly compressed timeline (I think) - in a less harried situation, I think we could have prevented some of fires by communicating and sharing information more and more often. Still, I really hope we can pull something together that is satisfactory for the community and all the agencies involved.

Thanks, and please send this on to anyone I may have missed.

-Sujata

Sujata Joshi, MSPH
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contain a computer virus which could cause harm to EPA's computers, network, and data. The attachment has been deleted.

This was done to limit the distribution of computer viruses introduced into the EPA network. EPA is deleting all computer program attachments sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

********** ATTACHMENT NOT DELIVERED **********

Re: Atrazine: In the News (PAN Update)

Elizabeth Allen to: Melanie Biscoe 08/12/2011 08:01 AM

Cc: Sheila Fleming, Scott Downey, Linda Liu

Hi Melanie,

Linda Liu indicated to me yesterday that you were interested in having some toxicologists from OPP participate in the meeting with Syngenta, currently scheduled for Sept 23 in Portland OR. Charles Breckenridge is one of the people Syngenta is flying out. I'd certainly welcome any and all participation from OPP experts. I'd be happy to coordinate with Oregon Health Authority, and would certainly like to at least give them a heads up. If room-size or other logistics become an issue, I can try and reserve the large conference room in our Oregon Operations Office in downtown Portland.

Let me know how I can help...

Elizabeth

Elizabeth Allen
Risk Evaluation Unit
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US Environmental Protection Agency, Region 10
1200 Sixth Ave, Suite 900
Seattle, WA 98101

206-553-1807
allen.elizabeth@epa.gov

USDA researchers: More herbicide lost in vapor than in runoff

Scott Downey to: Sheila Fleming, Elizabeth Allen, Jed Januch, Margo Young, Jill Bloom, Joel Wolf, Khesha Reed 08/12/2011 09:29 AM

If anyone questions why we're pursuing air sampling for the Triangle Lake exposure investigation ...

Also, I wonder if the USDA used sampling methods that would be helpful to us?

USDA researchers: More herbicide lost in vapor than in runoff

By MATTHEW WEAVER

Capital Press

More herbicides are lost through vaporization than runoff, USDA Agricultural Research Service researchers have found.

Herbicides were generally thought to be nonvolatile, and the general thought was that most environmental risk came from surface runoff, said Timothy Gish, soil scientist for ARS in Beltsville, Md.

The researchers primarily studied the herbicides atrazine and metolachlor, commonly used in corn production. The chemicals, according to ARS, are known to contaminate surface and ground water.

After several years of research, the team discovered herbicide volatilization numbers tended to be greater than runoff, ranging from 5 to roughly 23 percent of loss in the vapor phase after application, compared to less than 1 percent in runoff for the whole year.

Rain has to occur close to application for runoff, but volatilization happens all of the time, Gish said. The worst-case scenario is wet soil, high saturation and high temperatures leading to high pesticide volatility.

Losses of 15 to 20 percent was common when soils were slightly moist, Gish said.

When soils are dry, temperatures did not have a big impact on losses due to volatilization. When soils are moist, the sun heats the soil and the pesticide vaporizes.

"Whenever you have a moist soil, then you have real high losses," Gish said. "You don't want to apply the herbicide to a wet field, if you can avoid that."

In a process akin to delivering the herbicide in pill form, manufacturers could develop a small encapsulated carrier to allow the compound to be released into the soil, Gish said.

Gish doesn't foresee farmers facing further regulation as a result of the study's findings. He noted

the Environmental Protection Agency could advise farmers to wear protective gear.

Gish said the researchers are now working to understand the combination of temperature, soil moisture, pesticide chemistry and turbulent air flow.

"One of the things we have to be able to do is model this so farmers could say, 'OK, what would be my expected loss if I apply now?'" he said. "There's a lot of models out there, but no one understands the relationships we've been discovering."

Re: USDA researchers : More herbicide lost in vapor than in runoff

Elizabeth Allen to: Scott Downey 08/12/2011 10:44 AM

Cc: Jed Januch, Jill Bloom, Joel Wolf, Khesha Reed, Margo Young, Sheila Fleming

Alan Henning had sent me a link to this the other day, and I went looking for the article, but found it was in a publication to which EPA doesn't subscribe. I did find some information on this research, and my impression was that it was focused on measuring a mass flux rather than actual air measurements.

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Scott Downey If anyone questions why we're pursuing air sam... 08/12/2011 09:29:10 AM

From: Scott Downey/R10/USEPA/US
To: Sheila Fleming/R10/USEPA/US@EPA, Elizabeth Allen/R10/USEPA/US@EPA, Jed Januch/R10/USEPA/US@EPA, Margo Young/R10/USEPA/US@EPA, Jill Bloom/DC/USEPA/US@EPA, Joel Wolf/DC/USEPA/US@EPA, Khesha Reed/DC/USEPA/US@EPA
Date: 08/12/2011 09:29 AM
Subject: USDA researchers: More herbicide lost in vapor than in runoff

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Fw: Sampling conceptual model for Triangle Lake

Elizabeth Allen to: Scott Downey 08/14/2011 05:00 PM

History: This message has been replied to.

Sheesh, EPA email addresses seem to flummox the folks at OHA, and I fall into the trap by just using reply-to-all!

----- Forwarded by Elizabeth Allen/R10/USEPA/US on 08/14/2011 04:59 PM -----

From:	Elizabeth Allen/R10/USEPA/US
To:	"Sujata JOSHI" <sujata.joshi@state.or.us>, Alan Henning/R10/USEPA/US@EPA, Chad Schulze/R10/USEPA/US@EPA, downey.scott@epa.mail.epa.gov, "Greg PETTIT" <greg.pettit@state.or.us>, "Jae P DOUGLAS" <jae.p.douglas@state.or.us>, "Julie EARLY-ALBERTS" <julie.early-alberts@state.or.us>, "Karen BISHOP" <karen.bishop@state.or.us>, "Kathleen S Wickman" <kathleen.s.wickman@state.or.us>, Sheila Fleming/R10/USEPA/US@EPA, "David G FARRER" <david.g.farrer@state.or.us>
Date:	08/14/2011 04:57 PM
Subject:	Sampling conceptual model for Triangle Lake

All,

I spent a little time composing a brief conceptual model that I though might guide the sampling effort. Using some information gathered from the ATSDR Tox Profile for atrazine, the Public Health Goal for 2,4-D prepared by Cal EPA's Office of Enviromental Health Hazard Assessment, and some recent papers about off-target movement of commonly used pesticides, I've cobbled together a brief description of the environmental behavior of those two herbicides. I focused on atrazine and 2,4-D because they will be the target of the biomonitoring samples, bit it's important to remember that we will be analyzing for several more chemicals in the environmental samples. the additional herbicides under consideration in this investigation will also exhibit similar environmental fates. Analysis of the source and environmental fate leads to a more complete discussion of potential of the possible routes of exposure for the population we're studying. I didn't include any information that the biomonitoring samples would essentially address all pathways, but they are non-specific in that respect. At some point, we'll have to include some sort of simplified conceptual model into our Sampling and Analysis Plan, and hopefully this can serve as a template. Please feel free to edit/make suggestions as you deem appropriate.

Thanks

Elizabeth

[attachment "Triangle Lake Conceptual Sample Model.doc" deleted by Scott Downey/R10/USEPA/US]
[attachment "CSM.xls" deleted by Scott Downey/R10/USEPA/US]